

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No. HO4-3303/HO

In repatent application of Shinya Kovayashi

Serial No.: 09/805,216

Filed: March 14, 2001

Group Art Unit: No.2853

Examiner: Nguyen, Lam S.

For: LINE SCANNING TYPE INK JET RECORDING DEVICE CAPABLE OF FINELY AND INDIVIDUALLY CONTROLLING INK EJECTION FROM EACH NOZZLE

Commissioner of Patents and Trademarks Washington, D.C. 20231

## SUBMISSION OF FORMAL DRAWINGS

Sir:

Submitted herewith are eleven (11) sheets of formal drawing comprising Figures 1 to 21 for the above-identified patent application, filed in response to the Office Action dated January 17, 2003. Please note that Figures 1-4, 6-8, 15, 19-20 have been corrected to coordinate the drawings with specification in accordance with the paper submitted on October 21, 2002. Acknowledgment of receipt is respectfully requested.

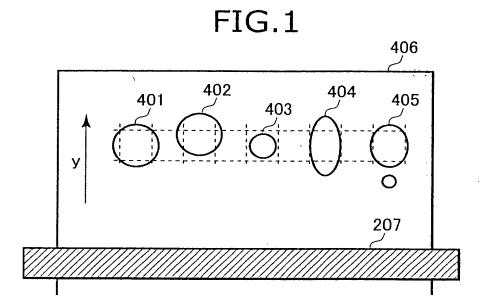
Respectfully submitted,

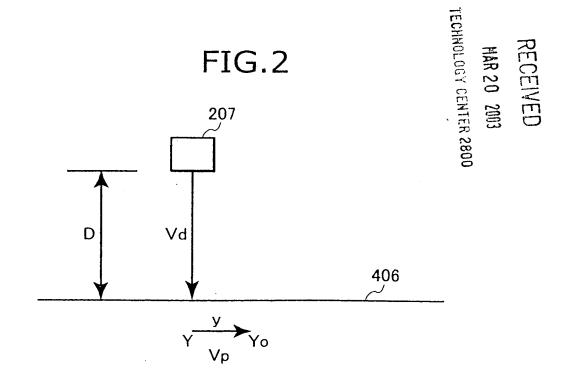
Olga V. Merkoulova Reg. No. 48,757

Whitham, Curtis & Christofferson, P.C. 11491 Sunset Hills Road, suite 340 Reston, VA 20190

Phone: 703-787-9400 FAX: 703-787-7557



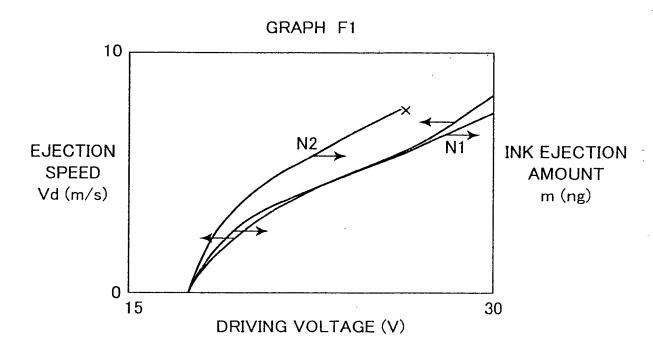


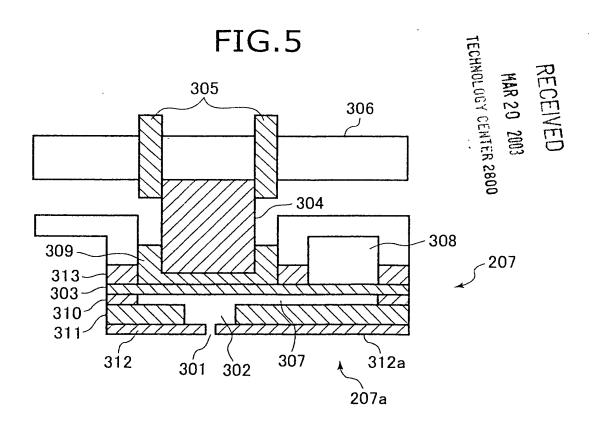


\



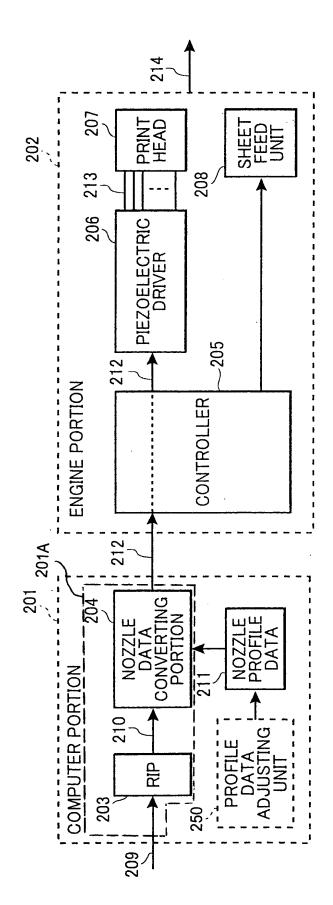
FIG.3









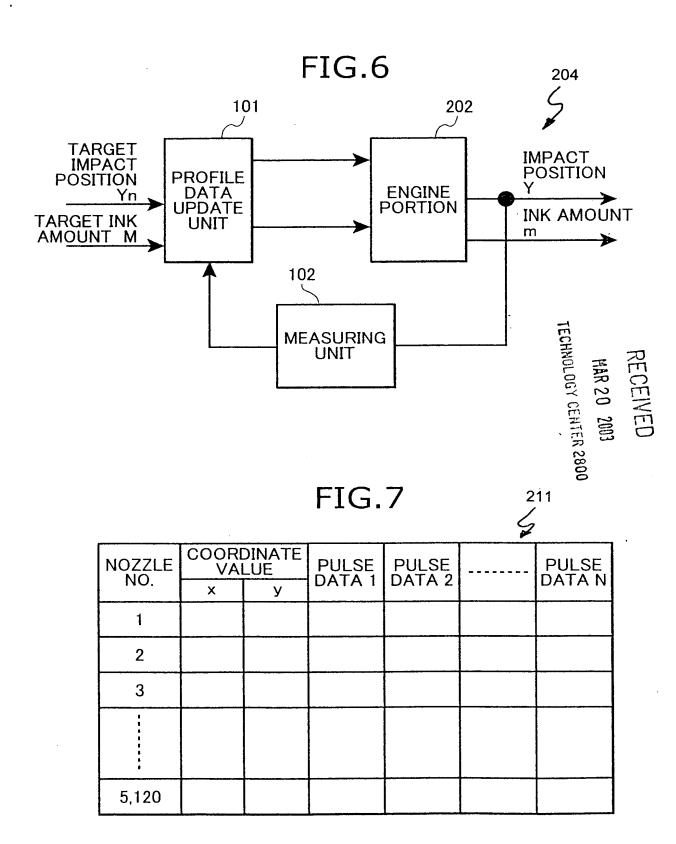


RECEIVED

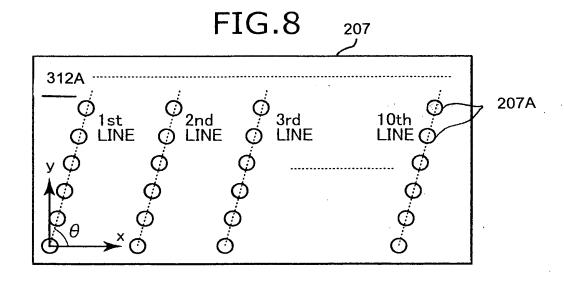
MAR 20 2003

TECHNOLOGY CENTER 2800









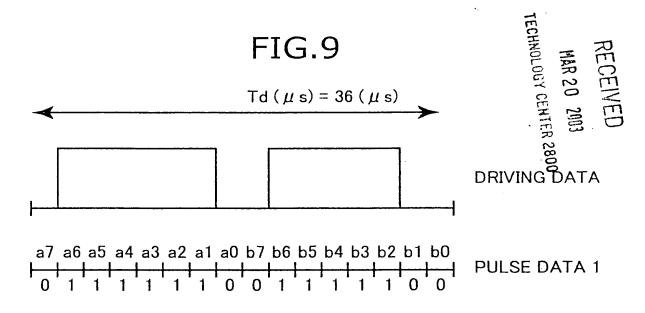
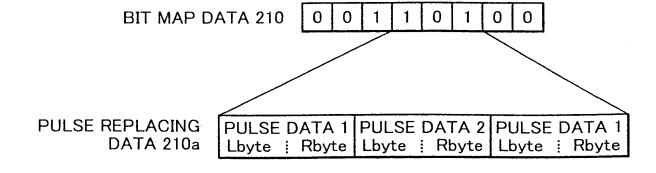


FIG.10





6/11

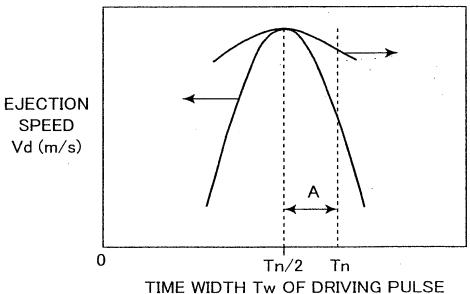
RECEIVED

MAR 20 2003

TECHNOLOGY CENTER 2800

FIG.11

GRAPH F2



**INK EJECTION AMOUNT** m (ng)

FIG. 12(a)

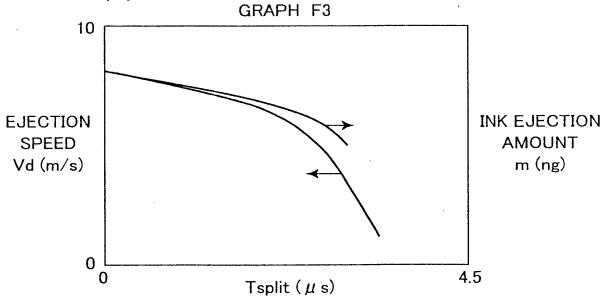


FIG.12(b)

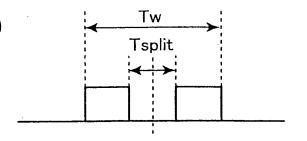
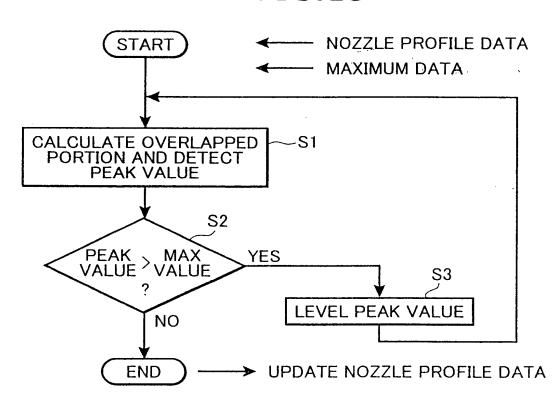




FIG.13



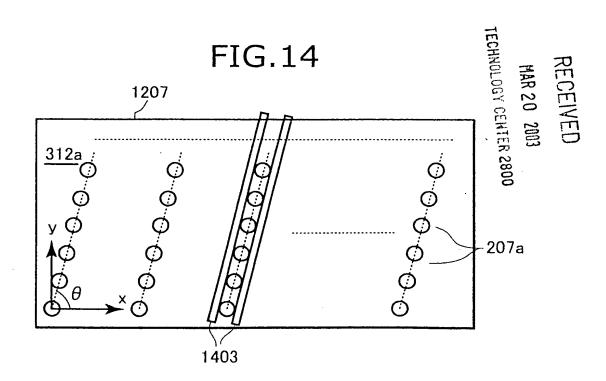




FIG.15

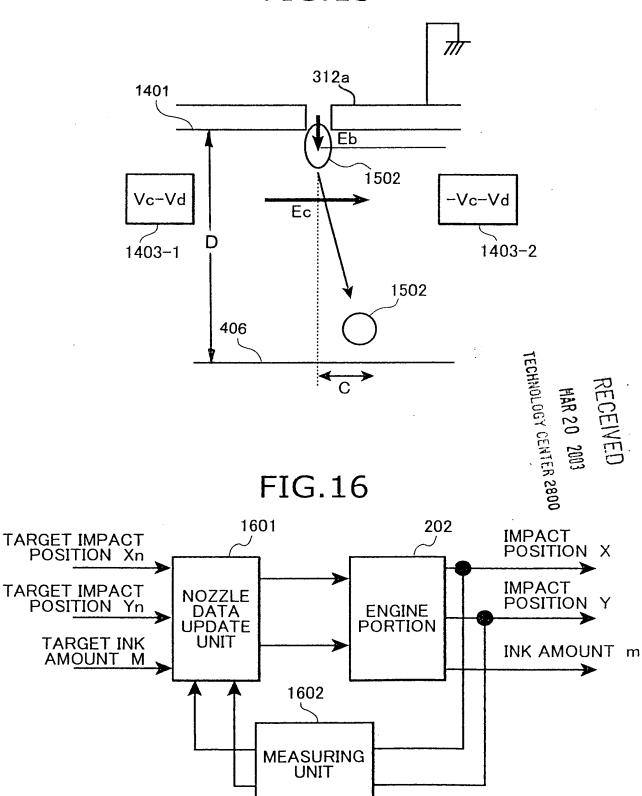




FIG.17

- 1	×	DINATE LUE y	PULSE DATA 1	PULSE DATA 2		PULSE DATA n	
n1			07e0				
n2			03e0				
n3			03c0				
				,			
	TECHMOLOGY CENTER 28001	MAR 20 2003					

NOZZLE NO.	COORI VAI ×	DINATE _UE _y	PULSE DATA 1	PULSE DATA 2	 PULSE DATA n
n1			03c0		
n2			0340		
n3			02c0		



FIG.19

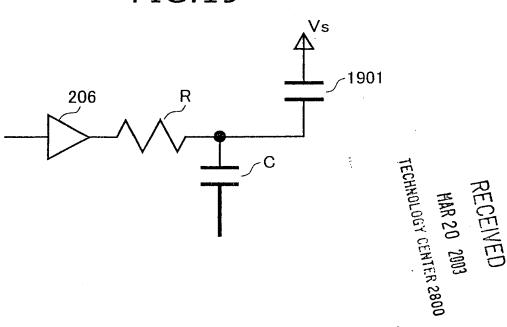


FIG.20

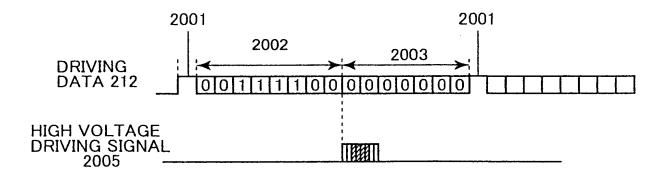
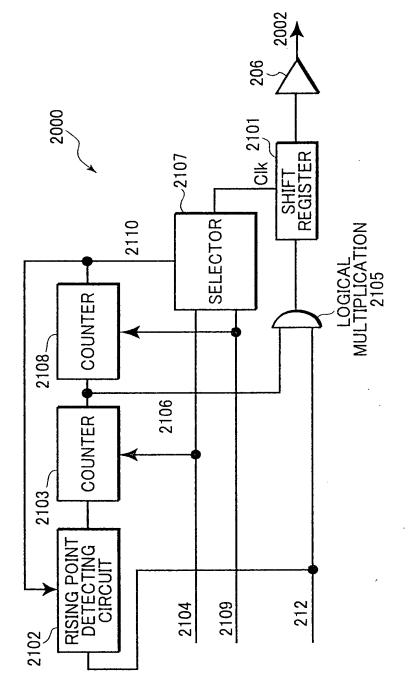




FIG.21



TECHNOLOGY CENTER 2800

MAR 20 2003

RECEIVED